

July-Aug-2021

BLDE (DEEMED TO BE UNIVERSITY)

M.Sc. Allied Health Sciences (Clinical Immunology)

[Time: 3 Hours]

[Max.Marks: 80]

I SEMESTER

PAPER – IV (RESEARCH METHODOLOGY & ETHICS)

QP CODE: 9114

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10 X 3 = 30 Marks

1. Importance of sample collection, recording of data and analytical quality control in immunological research on Covid-19.
2. What are the possible sources of errors in measurement in research? Describe the tests of sound measurement.
3. Describe composition and functioning of IEC.

Short Essays:

5 X 10 = 50 Marks

4. Research hypothesis.
5. Longitudinal or follow-up study design.
6. Test of practicality
7. Multidimensional scales.
8. Advantages of drawings over tables.
9. Confound relationship.
10. Plagiarism and its significance.
11. Type I & II errors.
12. Hazards and precautions in biomedical research.
13. Problems encountered in Immunological research.

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I SEMESTER

PAPER – II (CLINICAL CELL BIOLOGY)

QP CODE: 9112

Your answer should be specific to the questions asked.
Write Question No. in left side of margin.

Long Questions

10X3 = 30 Marks

1. Fluid Mosaic Model of plasma membrane
2. Lysosome on organ regression and phagocytosis
3. Explain the molecular organization of cyto-skeletal elements

Short Essays:

5 X 10 = 50 Marks

4. Gene expression
5. Adaptor or scaffold protein
6. Centriole
7. Protein trafficking
8. Oxydative phosphorylation
9. Karyotyping
10. Human Y Chromosome
11. Cell Signaling
12. Barbara McClintock
13. ACE2 receptor

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I SEMESTER

PAPER – I (CLINICAL BIOCHEMISTRY)

QP CODE: 9111

Your answer should be specific to the questions asked.

Write Question No. in left side of margin.

Long Questions

10X3 = 30 Marks

1. Explain how Cori cycle is important.
2. Describe how TCA cycle integrate fat, protein and carbohydrate metabolism.
3. Describe different kinds of proteases and their importance in health and diseases?

Short Essays:

5 X 10 = 50 Marks

4. Transamination reaction
5. Renal thresholds
6. Thrombosis
7. Cystinuria
8. Urea, Uric Acid and Creatinine
9. Bile salts
10. Anaerobic glycolysis
11. Phosphofructokinase
12. Hydroxymethylglutaryl CoA reductase
13. Genetic recombination

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I SEMESTER
PAPER – III (CLINICAL MOLECULAR BIOLOGY)
QP CODE: 9113

Your answer should be specific to the questions asked.
Write Question No. in left side of margin.

Long Questions

10 X 3 = 30 Marks

1. Prokaryotic and Eukaryotic Genes and Genomes
2. DNA replication and Cell Cycle Regulation
3. Structure and Function of DNA

Short Essays:

5 X 10 = 50 Marks

4. Plasmid DNA Replication
5. DNA methylation
6. Transcription
7. Protein trafficking
8. Aminoacylation of tRNA
9. Recycling of Ribosomes
10. Histones and Chromatin
11. Transcription factors
12. Splicing
13. Chromatin remodeling